

Chinese Torture

Kit Inventory

- Top, Base, Front, Left, Back and Right Box Panels
- Outer 1 (top), Outer 1 (base), Outer 1 (front), Outer 1 (left), Outer 1 (back) and Outer 1 (right)
- Outer 2 (top), Outer 2 (base), Outer 2 (front), Outer 2 (left), Outer 2 (back) and Outer 2 (right)
- Slider Guide 1 (top), Slider Guide 2 (top) , Panel Slider (top) and Slider (top)
- Slider Guide 1 (base), Slider Guide 2 (base), Panel Slider (base) and Slider (base)
- Slider Guide 1 (front), Slider Guide 2 (front) , Panel Slider (front) and Slider (front)
- Slider Guide 1 (left), Slider Guide 2 (left), Panel Slider (left) and Slider (left)
- Slider Guide 1 (back), Slider Guide 2 (back) , Panel Slider (back) and Slider (back)
- Slider Guide 1 (right), Slider Guide 2 (right) , Panel Slider (right) and Slider (right)
- Inner 1 (top) and Inner 2 (top)
- Inner 1 (base) and Inner 2 (base)
- Inner 1 (front) and Inner 2 (front)
- Inner 1 (left)
- Inner 1 (back) and Inner 2 (back)
- Inner 1 (right)
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- Purple (.500") alignment pegs (8+)
- Green (.370") alignment pegs (4+)
- Blue (.220") alignment pegs (24+)

Other Items Needed

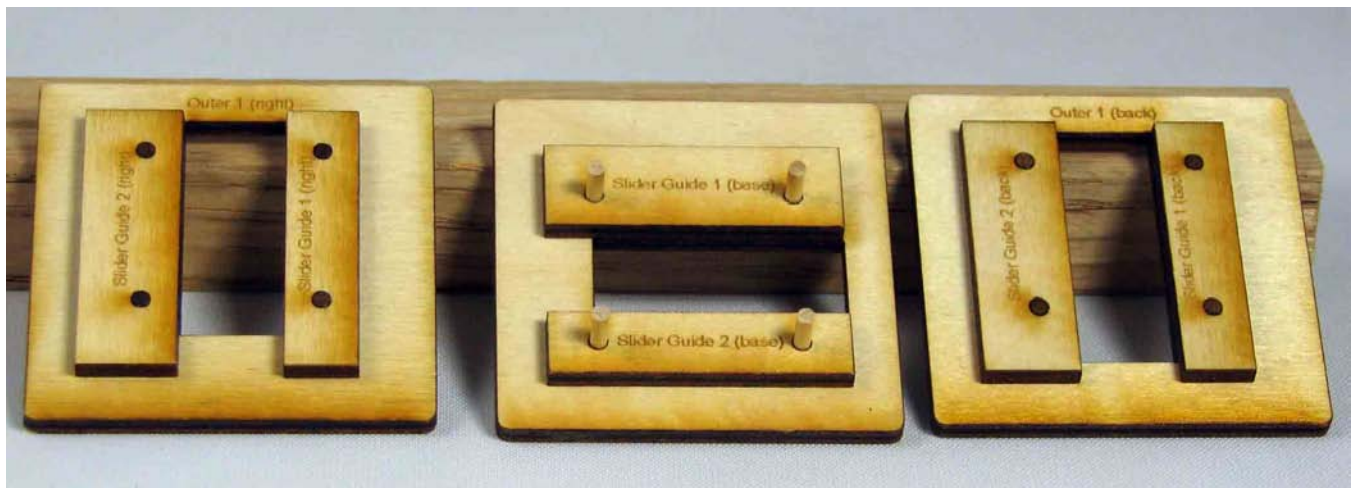
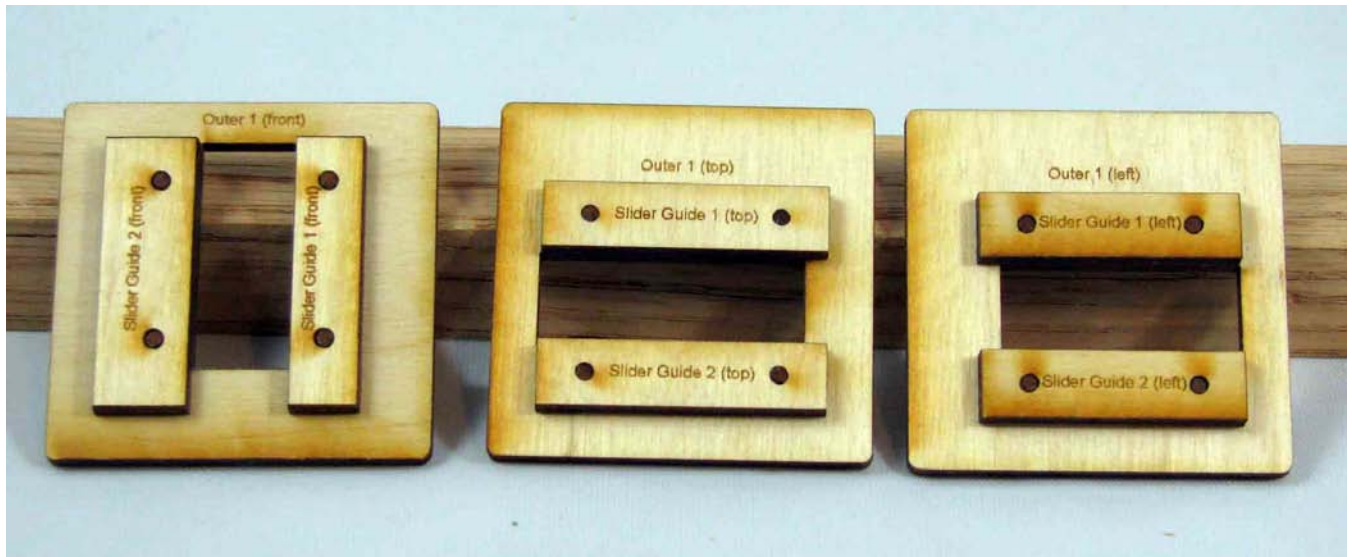
- Glue – I use a “craft” type tacky glue such as “Aleenes Tacky Glue” which can be found at craft stores like Michael’s.
- Sandpaper - to smooth any rough edges and make parts slide easier. 100 grit for rough sanding and 180/220 grit for smoothing
- Wax/paraffin – also to make parts slide better.

General Notes:

- All writing on parts is oriented the same way on each side unless otherwise noted.
- This puzzle is assembled with the writing on the plywood pieces facing inwards.
- The assembly sequence and the finishing sequence are important, so make sure you read through the entire instructions before starting.
- The alignment pegs are of different lengths depending upon the number of layers that are being placed together. Be careful to use the correct length. The pegs are easier to push through the holes if you start them on the side of the piece that has writing.
- Check the fit before gluing and sand/file any pieces that do not slide smoothly
- I find that light sanding of the faces of sliding pieces makes for better boxes. I also use paraffin/candle wax on the surfaces to get smoothly moving pieces.
- I use Aleene's tacky glue for gluing parts. I glue the pieces and then hold them together for ~15 seconds and they will stay in place until the glue dries.
- Be careful when attaching outer sides, spacers and covers to keep glue away from areas where it might squeeze out underneath and get on any of the sliding parts. If possible glue those parts without the sliding pieces in place so you can clean up any glue squeeze out.
- Clean up glue squeeze out while the glue is still soft as it is much harder after it dries.
- When sanding flat sides it is better to place the sheet of sandpaper on a flat surface and move the puzzle piece over the sandpaper. This keeps the face flat and prevents rounding over the edges.

Assemble Outer 1 Panels

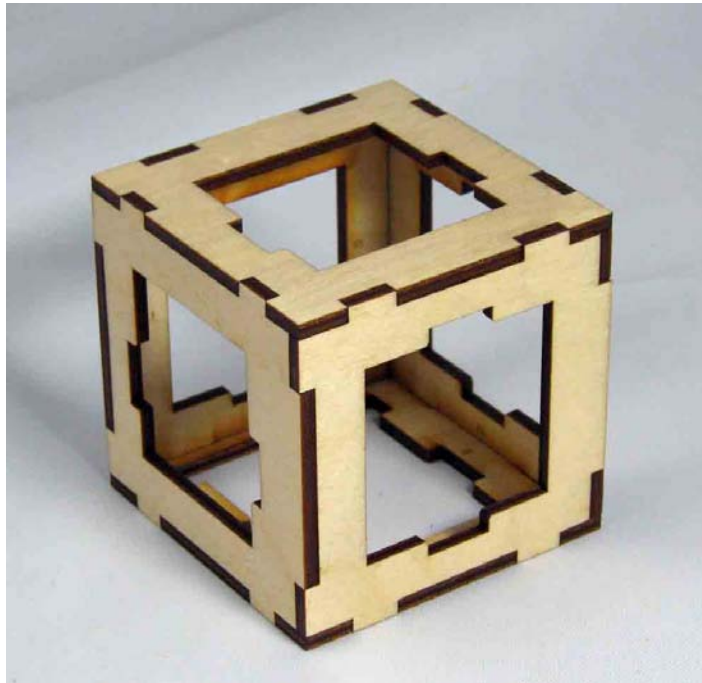
Start by gluing the slider guide 1 and slider guide 2 pieces to the appropriate outer 1 piece (top, front, left, back, right) using the blue (.220") pegs. The picture below shows the assembled pieces. The base piece will use the purple (.500") pegs.



After the glue is dry, sand the outside face of each piece with 180/220 sandpaper. I then applied clear finish just to the outside face.

Test Assemble Box

Sand the outside faces of the box pieces (top, base, front, left, back and right panels). I then pressed these together WITHOUT any glue. With the box together like this I applied clear finish as shown in the picture below.



After two/three coats of finish I dis-assemble the box. The purpose of applying the finish with the box put together like this is to prevent getting finish on the edges of the box panels that will need to be glued later. After the finish dries on these pieces, test fit the Outer 1 panel assemblies with the appropriate Outer panel pieces to make sure the Outer 1 piece slides smoothly. When looking at the pieces from the inside, the writing on the pieces should be oriented in the same direction.

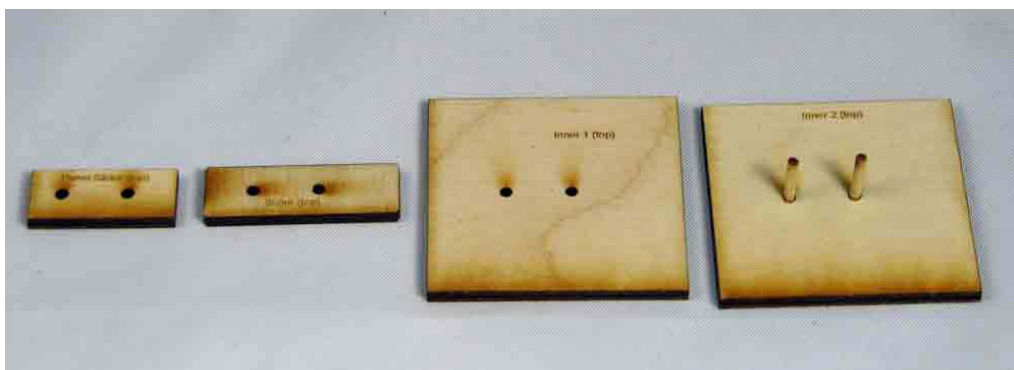
Finish Outer 2 panels

Sand the six outer 2 panels with 180/220 sandpaper and apply finish to just the outside face of each piece.

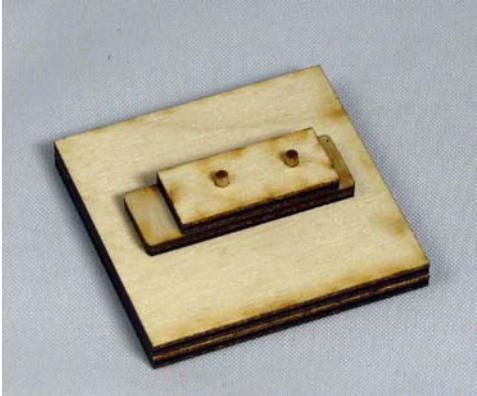
Assemble Slider Pieces

Before gluing these pieces together, test fit the two slider pieces in the appropriate Outer 1 panel. It is easier to sand the edges of these pieces to fit/slide smoothly before gluing the assembly together.

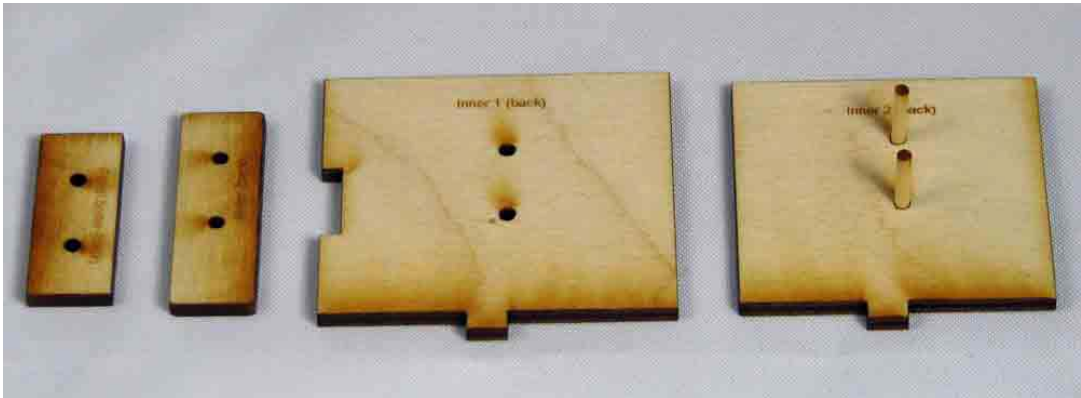
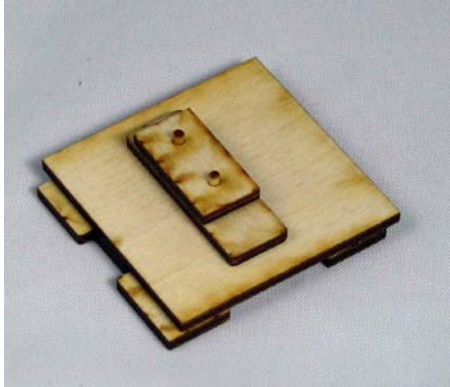
Glue the Panel Slider (top), Slider (top), Inner 1 (top) and Inner 2 together using the purple .500" pegs. The picture below shows those pieces and they are stacked up with the left end (Panel Slider piece) on the bottom and the pieces to the right on top. The pieces should be assembled with the writing facing towards the inside of the box. In the picture below the pegs on the Inner 2 panel will get pushed through that panel so they end up flush with the side that has writing.

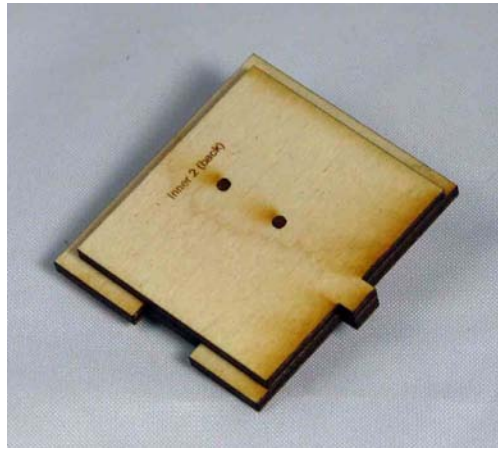


After they are glued the assembly should look like the picture below (the writing on the pieces is now facing down).

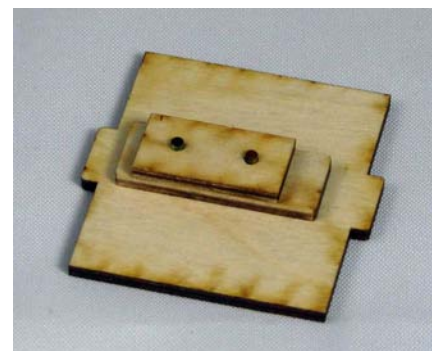
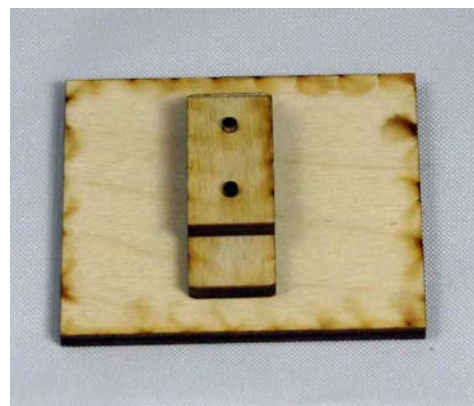
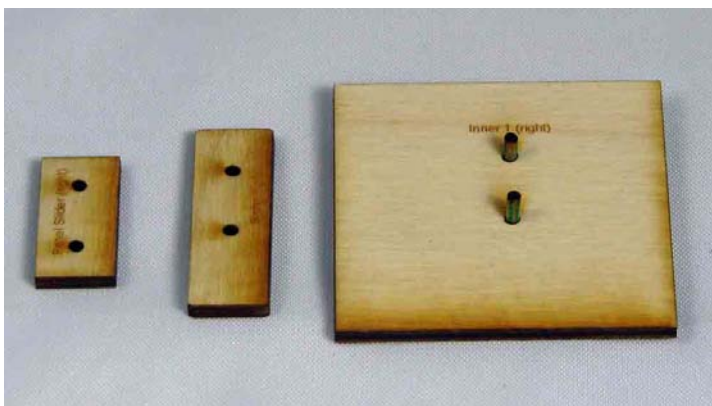


Repeat these steps for the front and back pieces using the .500" pegs. The photos for these pieces are shown below.



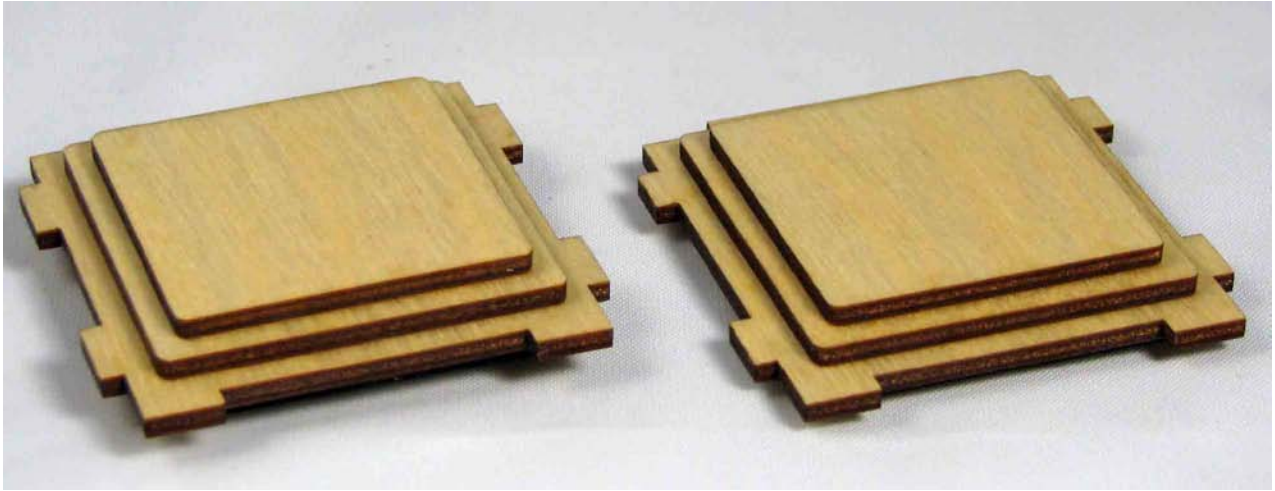


The assembly of the left and right pieces is similar except that there is only a single inner panel so you will use the green (.370") pegs for those assemblies. The photos are shown below.



Assemble Sides

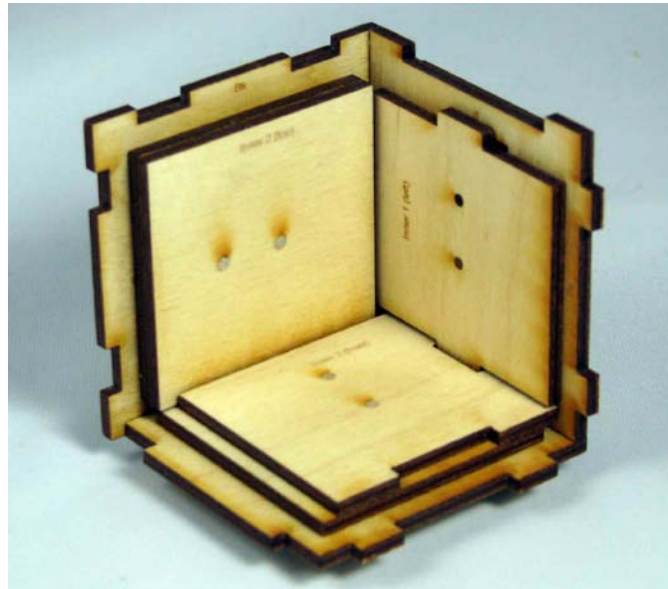
Assemble the top panel by taking the Outer 1 assembly and with the writing facing inwards, place it into the top outer panel. When looking at the two pieces from the inside the writing on the two assemblies should be in the same orientation. Take the slider assembly for the top and with the writing in the same orientation as the Outer 1/Outer panel, insert it into the slot for the sliders. You can reference the plans from Bruce to verify how these pieces fit together. The Outer 2 panel can be glued to the panel slider after you test to make sure the pieces in this assembly slide smoothly.



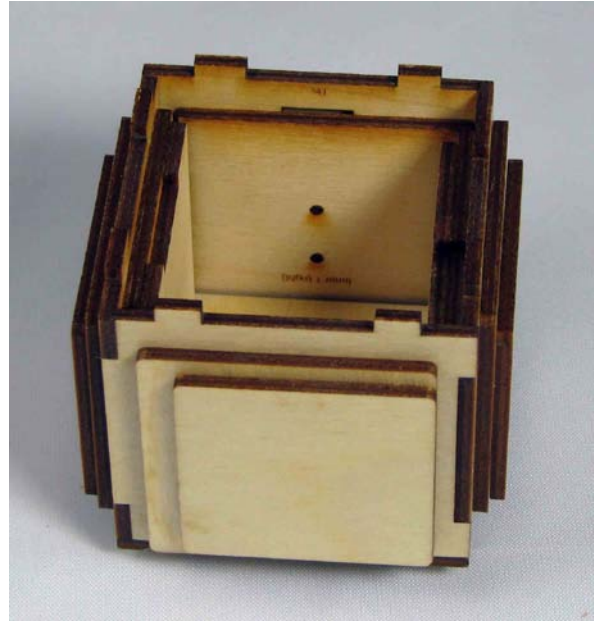
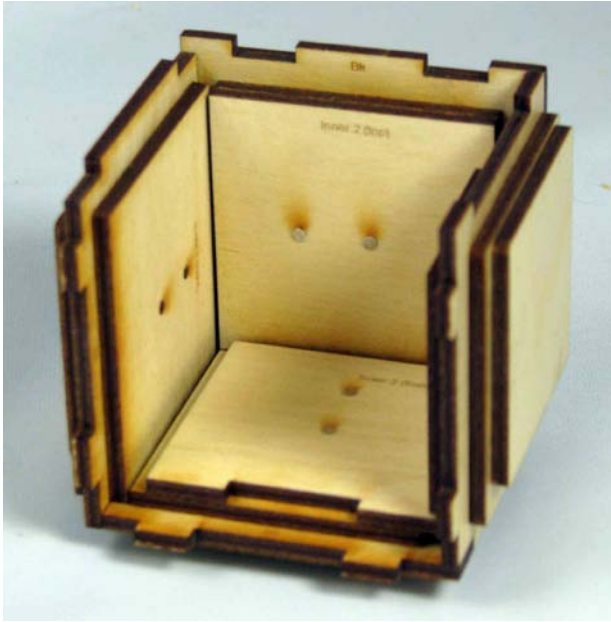
These steps should then be repeated for the front, back, left and right sides.

Glue box together

The top, front and left sides are now glued together. Move the Outer 1 and Outer 2 panels on these sides until those panels are centered on the Outer panel. With those sliders in this position (locked) the three sides can be glued together. Be careful with glue squeeze out and remove any before it dries. The sides will only fit together one way as shown in the plans. Make sure the slider pieces do not get glued in place by moving them periodically while the glue is drying. The assembly should look like the picture below.



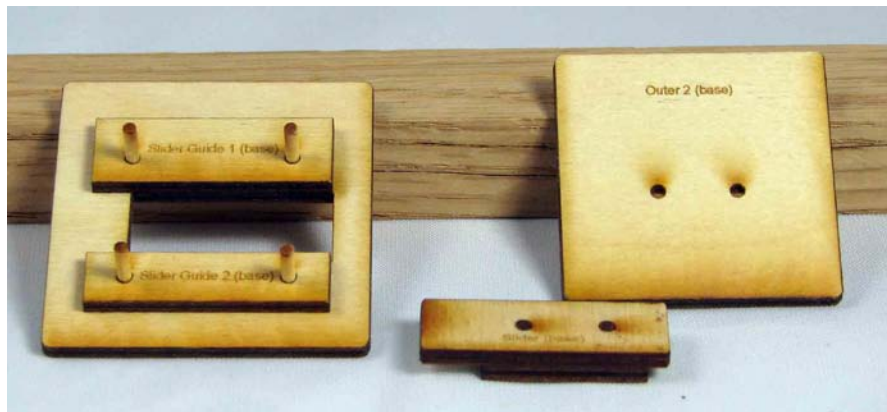
With the Outer 1 and Outer 2 panels centered, glue on the right side and then glue on the back side. The Base box panel can then be glued in place.



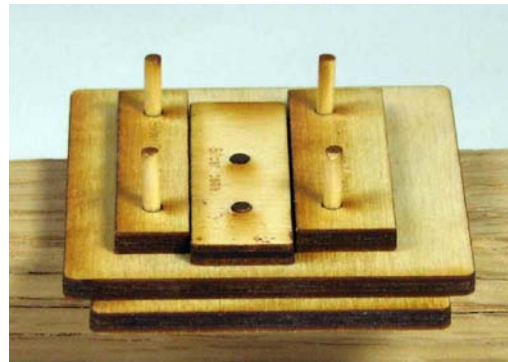
Assemble Base Panel

The bottom panel is slightly different than the other panels. It has the two inner panels attached to the Outer 1 panel instead of the sliders.

First glue the Panel Slider (base) and Slider (base) together using the blue (.220") pegs as shown below along with the Outer 1 panel with the slider guides and Outer 2 panel.



Insert the slider assembly into the inside of the Outer 1 (base) panel and then glue the Outer2 (base) panel to the slider assembly.



Then glue the two Inner (base) panels to the inside of the Outer 1 (base).



After gluing make sure the sliders still move smoothly. When the glue is dry then the puzzle assembly is complete.

